BRUHAT BANGALORE MAHANAGARA PALIKE
RAJARAJESHWARINAGAR ZONE
ELECTRICAL DIVISION
DETAILED ESTIMATE FOR PUBLIC WORKS
Name of the Work: providing M & R to Pump Set/ DG Set @ JP Park in ward No 17 of RR Nagar

Est. No.AEE/ELE/RRNZ/ EST/ / 12-13				Work Code:			Est Amount: 500000.00
Sl No	SR ref		Description of Work	unit	Qty	Rate	Amount
	page	sl no					
1	9	20	Wiring for lighting/power circuit using one of PVC insulated 11oov grad, multis and **copper** conductor single core cable in open or consealed system of wiring.				
		I	**I Group A Materials.**				
		b	1.5 sqmm	Per Mtr.	25	15.00	375.00
		e	6 sqmm	Per Mtr.	50	52.00	2600.00
2	10	25	Supplying PVC/Gl flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy guage saddles at an interval of 300mm using NF screws and the either end of the pipe terminated completely.				
	11						
		b	25mm	Mtr	20	47.00	940.00
3	13	7	Supplying push button operated direct online starter with an antiweld silver cadmiun oxide contactor with replaceable fixed and moving contacts and bimetallic thermal overload relay help in anticorrossion treated sheet steel or iron clad closure and fixing the same to suitable capacity wires for 400/440 volts 3 phase motor/single phase motor.				
		a	Group ' A '	Each	2	1607.00	3214.00
4	14	8	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contractors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.				
			I Upto 12.5 HP				
		a	Group ' A '	Each	5	5880.00	29400.00
5	14	9	Supplying and fixing single phase prventer using necessary wires over an existing panel board suitable for motor up to 20 HP capacities.	Each	8	735.00	5880.00
6	32	3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., Complete.				
		c	63A mps	Each	12	219.00	2628.00
7	36	12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required.				
		A)	5-32Amps				
		1	Group ' A'	Each	4	195.00	780.00
		F)	**40-63Amps TPN**				
		1	1. Group 'A'	Each	8	1495.00	11960.00

AEE (Elg.)

(5)

	SR ref page	SR ref sl no	Description of Work	unit	Qty	Rate	Amount
8	40	33	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery. Cost per KVAR	per			
		a	Group A	KVAR	5	360.00	1800.00
9	41	37	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.				
		a	40x40x6mm	RMtr	8	240.00	1920.00
10	41	38	Fabricating supplying and mounting MS box made out... SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete.				
		b	16SWG	SQ CM	18000	0.33	5940.00
11		28	Supplying and drawing PVC flexible unarmoured copper control cable of approved make				
		B	**3c x 2.5Sqmm**				
		1	Group A	RMt	100	129.00	12900.00
12	51	35	Supplying and fixing/replacing condenser for ceiling gan/MV/SV/MH and other luminaries.				
		a	upto 4mfd	No	40	82.00	3280.00
13	53	47	Supply and fixing of 70Watts heavy duty open construcion ferromagnetic copper ballast for HPSV/HPMH lamps				
		d	**400Watts**				
		1	Group A	No	50	1680.00	84000.00
14	53	51	Supplying and fixing of HPMH lamps on existing fitting mounted on tublar pole.				
		c	400Watts		50	1152.00	57600.00
15	54	55	Supply and fixing of of 230 volts Porocelain holder fof MV/SV/MH lamp				
		b	250-400Watts lamp Holder	No	40	78.00	3120.00
16	54	60	Supplying and fixing/repalcement of lgnitor suitable for 70 to 400Watts SV/MH fittings				
		a	Group A	No	40	520.00	20800.00
17	55	63	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole.				
		c	8 Mtr and above street light pole.	No	50	525.00	26250.00

AEE (E/M)

	SR ref		Description of Work	unit	Qty	Rate	Amount
	page	sl no					
18	68	1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.	Each	10	1950.00	19500.00
19	68	4	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class				
		I	**Class 'A' PVC Dcable**				
		b	4 core 10 sqmm	Per Mtr	950	135.00	128250.00
20	69	5	Labour charges for laying of 1.1KV class UG calbe when supplied agency in existing trench GI pipe/ stpnewre pip / on wall / on pole as required.				
		a	6 sqmm to 16 sqmm	Rmtr.	950	8.00	7600.00
21	70	6	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., Complete. (As per Civil SR KSRB 1-2, P-7)				
		a	In soil (ordinary)	Rmtr	925	40.00	37000.00
22	70	9	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class.				
		a	40mm	Rmtr	10	240.00	2400.00
23	75	23	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/ spaceris etc.,				
		I	**GI wire**				
		c	8 SWG	Per Mtr	150	20.00	3000.00
24	81	47	Supplying and fixing of				
		a	Spiral Earth Electrodes as per standard technical specification.	Each	50	535.00	26750.00
			Miscellanious & round off				113.00
			Total				**500000.00**

1) Certified that,the work spot has been inspected by me & prepared the estimate in most economical way of executing
2.) The Provisions made in the estimate are adequate and are necessary.
3.) The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4.) The rates in the Estimate is based on the KPWD (Elect) SR 2010- 11 And Approved rates.

Junior Engineer(Electrical)
RR Nagar Zone
BBMP

Assistant Executive Engineer(Elect)
Rajarajeshwarinagar Range
BBMP

Executive Engineer(Elect)
RR Nagar Zone
BBMP

(3)

ADMINISTRATIVE APPROVED

Rs : Five lakh only is accorded

under the head : P0303

By AC (R.R.N.) : 1463/12-13.

Vide Register Page No. 18 & 19. subject to conditions contained in inclosed memo

No. : 1463/12-13 Date : 13/2/2013

AC (R.R.N.)

Te 5,00,000-00

Rs. Five lakh only.

under the head P0303.

By EE (Elect) RRN/ 82/12-13

Registered as R.R.N. No. 1435 Subject to conditions contained in enclosed memo

No. 82/12-13. Date 18/12/2013.

AE, (Elect) RRN

EE, (Elect) RRN